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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/327,523		06/08/1999	TAKAHISA UENO	P99.0401 5532 EXAMINER	
33448	7590	09/22/2004			
ROBERT	J. DEPK	E LEWIS T. STEA	MOE, AUNG SOE		
HOLLAND & KNIGHT LLC 131 SOUTH DEARBORN				ART UNIT	PAPER NUMBER
30TH FLOOR CHICAGO, IL 60603				2612	20
				DATE MAILED: 09/22/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/327,523	UENO ET AL.					
Office Action Summary	Examiner	Art Unit					
	Aung S. Moe	2612					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on <u>17 September 2004</u> .							
2a) This action is FINAL . 2b) ⊠ This	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-3,5-8 and 12-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1,3,5-8,15-17,20 and 21 is/are allowed. 6) Claim(s) 2,12-14,18 and 19 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:						

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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments, see paper no. 17 & 19, filed 9/17/2004, with respect to the rejection(s)of claim(s) 1-3, 5-8, 15-17, and 20-21 under the rejection of 35 U.S.C. 102(e) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn.
- 2. Applicant's arguments, see paper no. 17/19, filed 9/17/2004, with respect to the rejection(s) of claim(s) 12-14, 18 and 19 under the rejection of 35 U.S.C. 102(e) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Chi et al. (U.S. 5,608,243).

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 2, it is unclear how "a reset potential" recited in line 3 relates to "a reset potential" recited in claim 1, lines 9-10? If there are the same "reset potential", please change the words "a reset potential" as recited in line 3 of claim 2 to -- said reset potential - -.

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Allowable Subject Matter

5. Claims 1, 3, 5-8, 15-17 and 20-21 are allowable in view of the Applicant's remarks filed on Sep. 17, 2004.

6. Claim 2 would be allowable if rewritten to overcome the rejection(s) under 35
U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 12-14, 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gowda et al. (U.S. 5,898,168) in view of Chi et al. (U.S. 5,608,243).

Regarding claim 12, Gowda '168 discloses a method for driving a solid-state imaging element (Figs. 2 and 3A) which includes unit pixels, arranged in a matrix (18/30), each of which have photoelectric conversion element (6/26/110), a transfer switch (8/22) for transferring charge stored in said photoelectric conversion element (6/26/110), charge stored part for storing charge (i.e., Figs. 1 and 3B; the elements' 7 and 25; col. 1, lines 65+ and col. 5, lines 50+) transferred by said transfer switch (8/22), reset switch (11/21) for resetting said charge store part (i.e., 7/25),

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and an amplifying element (i.e., 13/23) for outputting a signal in accordance with a potential of said charge store part (i.e., 15/15j), said method comprising the step of:

selecting pixels in units of rows by controlling a reset potential applied to selected one of said reset switches (i.e., see Figs. 5-6 and 11; col. 4, lines 25+ and col. 5, lines 20+).

Furthermore, it is noted that Gowda '168 does not explicitly state wherein a negative voltage is applied to a gate of said reset switch as recited in claim 12.

However, the above-mentioned claimed limitations are well known in the art as evidenced by Chi '243. In particular, Chi '243 teaches that it is conventionally well known in the art at the time of the invention was made to apply a negative voltage to a gate of the reset switch (i.e., col. 3, lines 35-45).

In view of the above, having the system of Gowda '168 and then given the well-established teaching of Chi '243, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Gowda '168 as taught by Chi '243, since Chi '243 states at column 4, lines 40+ that such a modification would provide the solid-state imaging device with a wide dynamic range that is adjustable thereof.

Regarding claim 13, Gowda '168 discloses the step of: outputting signals read into said vertical signal lines in voltage mode (i.e., col. 8, lines 21+).

Regarding claim 14, Gowda '168 discloses the step of: outputting signals read into said vertical signal lines in current mode (i.e., col. 7, lines 39+).

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Regarding claim 18, Gowda '168 discloses the solid-state camera system and method comprising reading of a reference level with a falling edge of the reset pulse (as shown in Figs. 5, 6 and 11; col. 5, lines 15+ and col. 6, lines 5+).

Regarding claim 19, Gowda '168 discloses wherein a changing state of reset pulse and a selection pulse initiates a pixel reading operation (i.e., col. 4, lines 20+, col. 5, lines 14+ and col. 6, lines 5+; see Figs. 5-6 and 11).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aung S. Moe whose telephone number is 703-306-3021. The examiner can normally be reached on Mon-Fri (9-5).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber can be reached on 703-305-4929. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aung S. Moe Primary Examiner

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A. Moe September 20, 2004